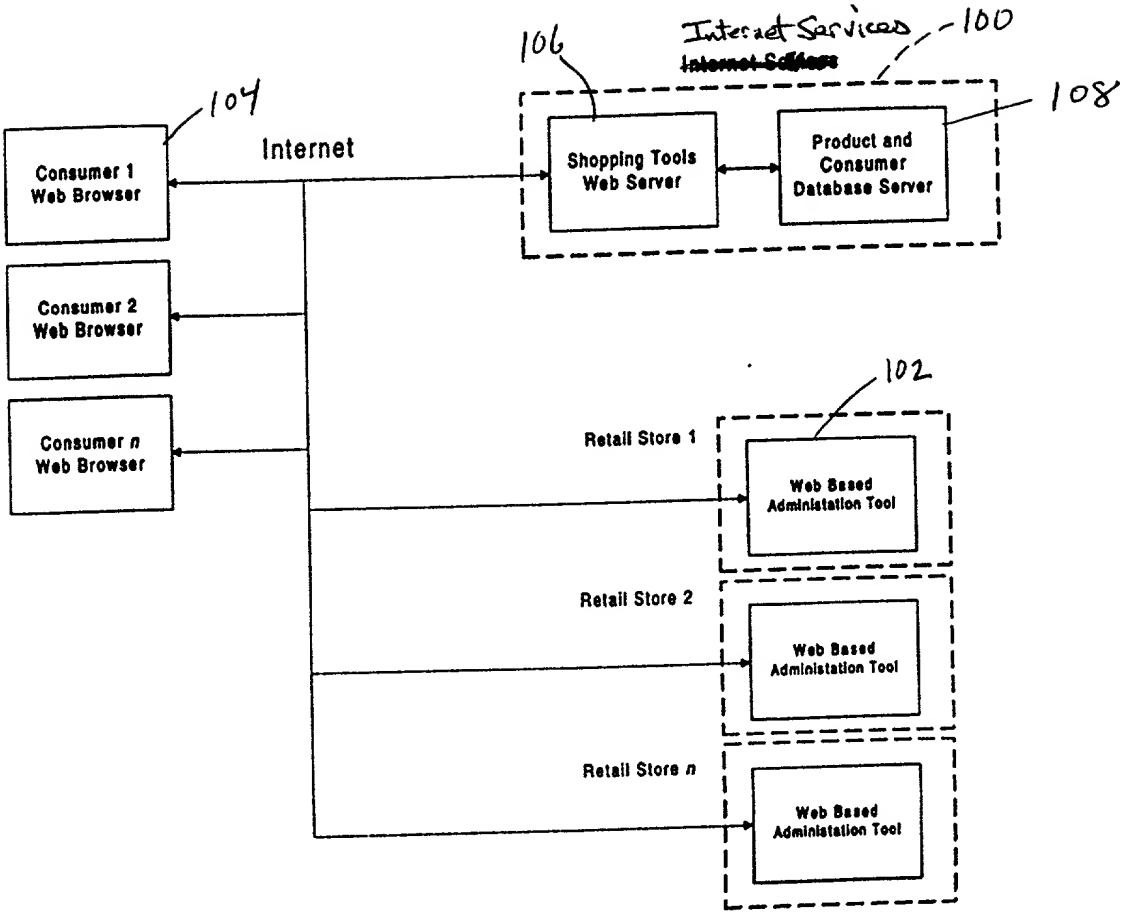

106
Internet Services
100
104
108
Internet
Consumer 1
Web Browser
Consumer 2
Web Browser
Consumer n
Web Browser
Shopping Tools
Web Server
Product and
Consumer
Database Server
102
Retail Store 1
Web Based
Administation Tool
Retail Store 2
Web Based
Administation Tool
Retail Store n
Web Based
Administation Tool

Figure 1

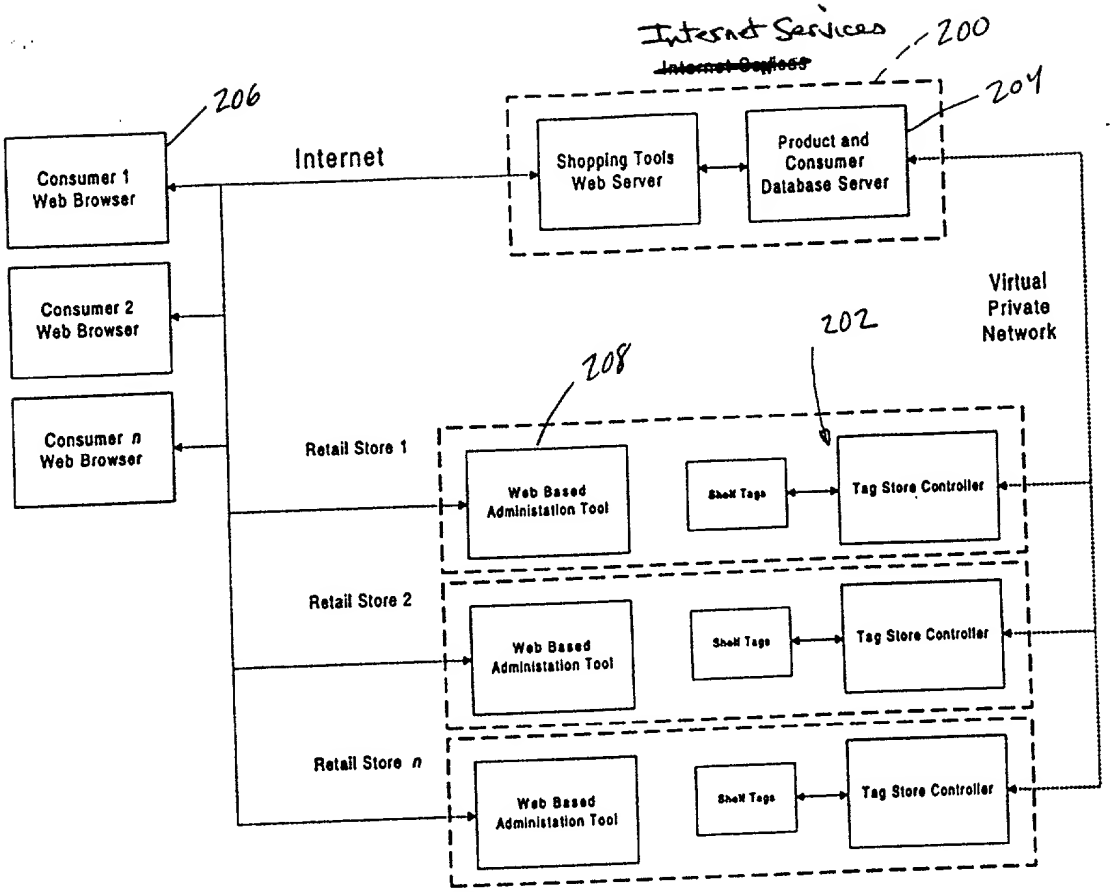


Figure 2

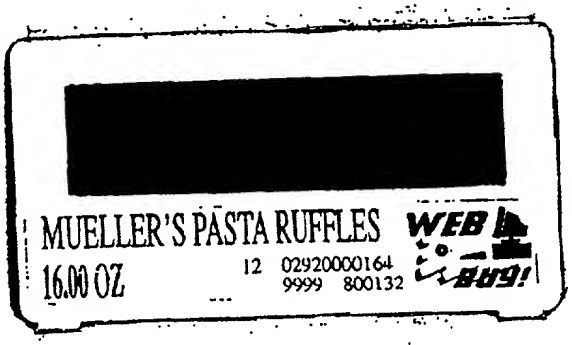


FIG. 3

Figure4

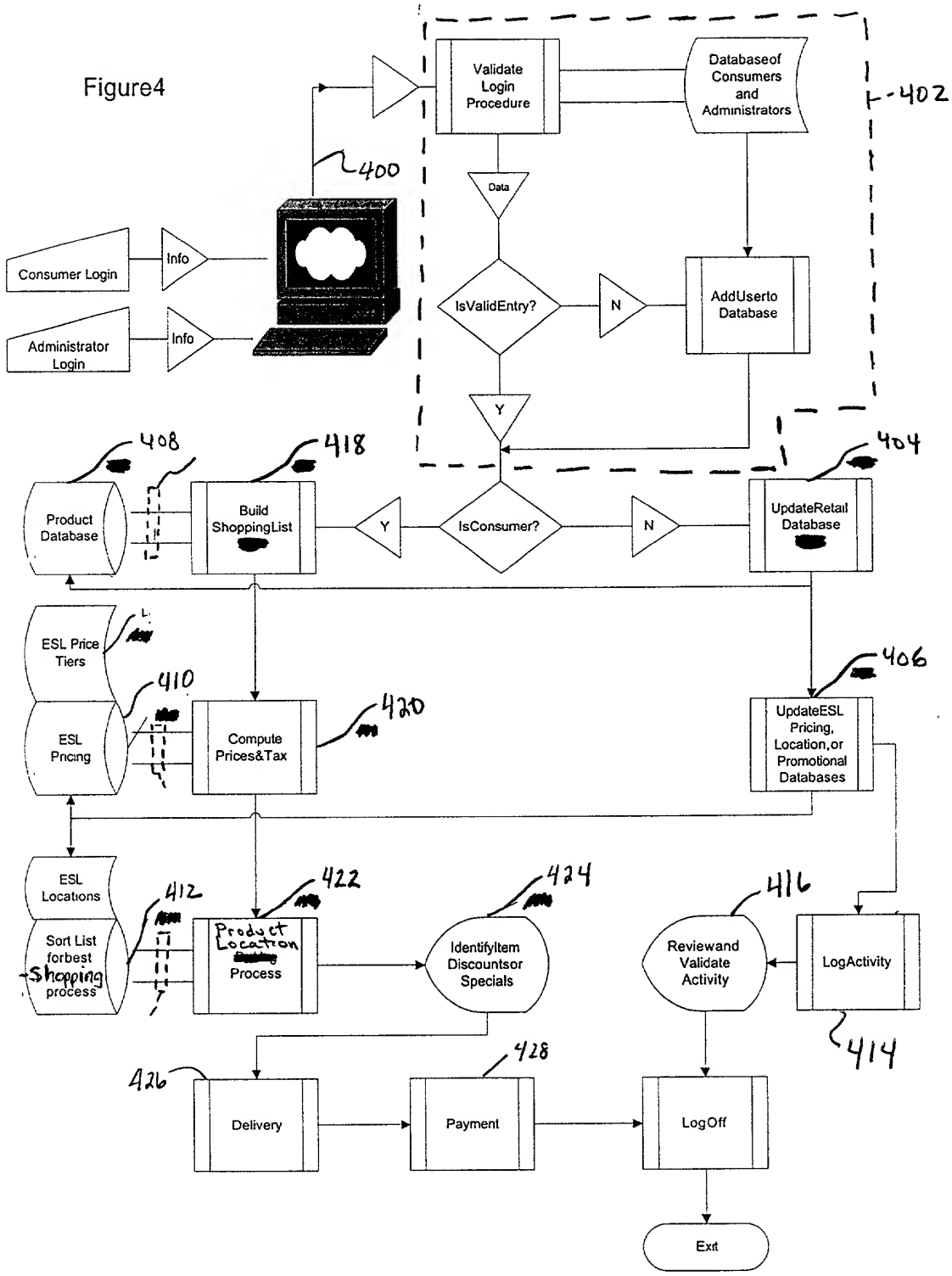

Validate Login Procedure
Databaseof Consumers and Administrators
402
400
Data
Consumer Login
Info
Administrator Login
Info
IsValidEntry?
N
AddUserto Database
Y
408
418
404
Product Database
Build ShoppingList
Y
IsConsumer?
N
UpdateRetail Database
ESL Price Tiers
410
406
ESL Pricing
Compute Prices&Tax
420
UpdateESL Pricing, Location,or Promotional Databases
ESL Locations
412
422
424
416
Sort List forbest Shopping process
Product Location Process
IdentifyItem Discountsor Specials
Reviewand Validate Activity
LogActivity
414
426
428
Delivery
Payment
LogOff
Exit

Figure5

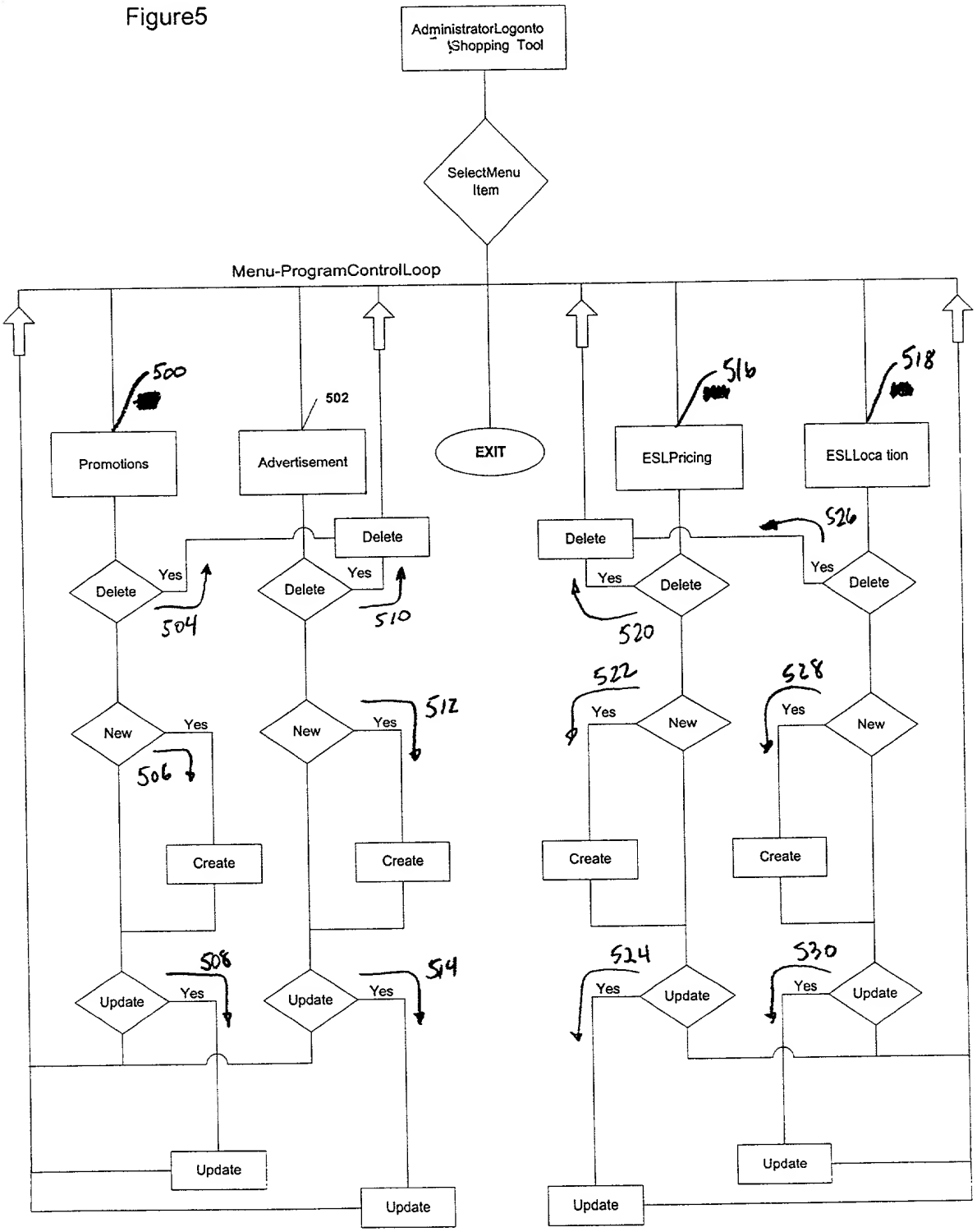
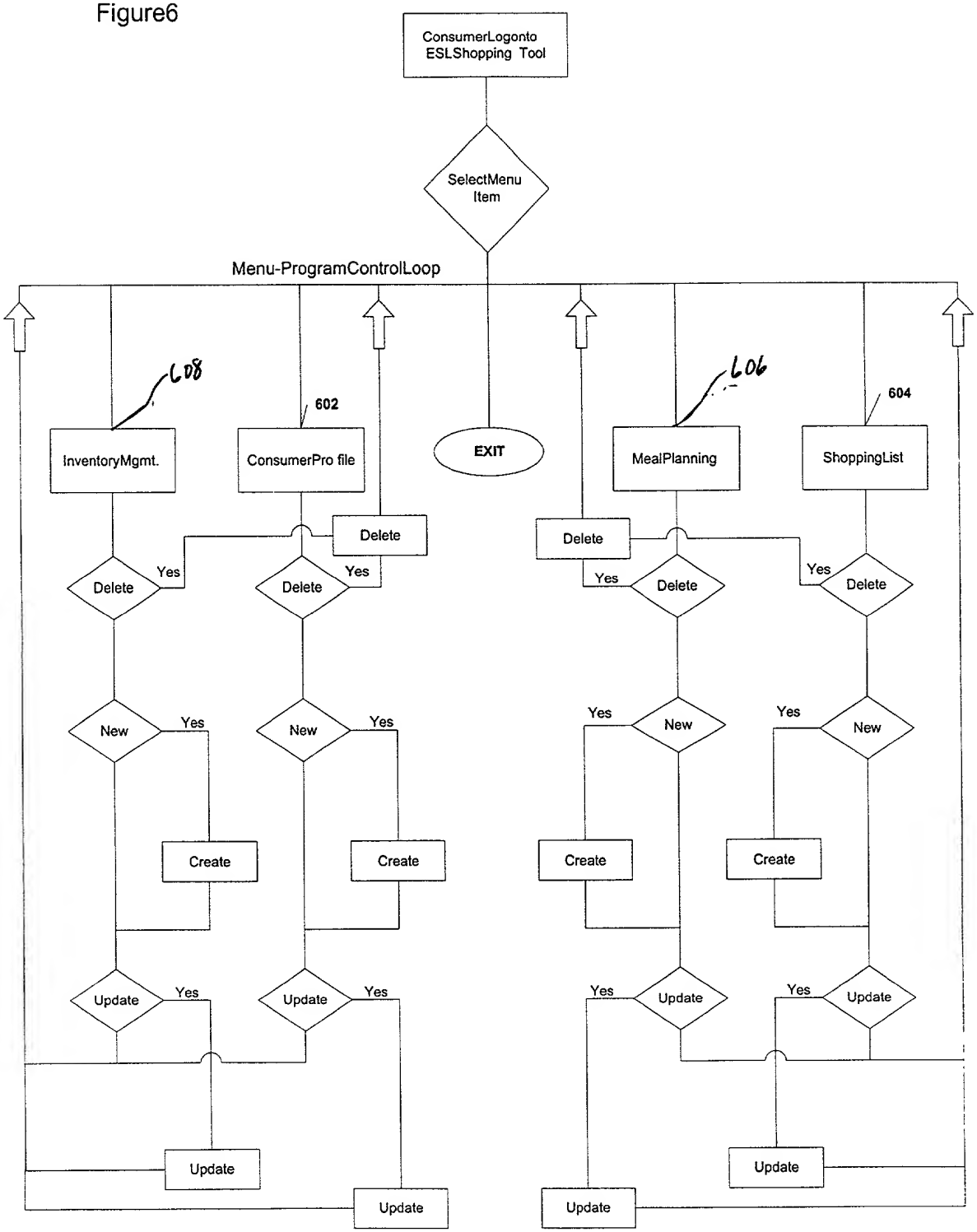

AdministratorLogonto Shopping Tool
SelectMenu Item
Menu-ProgramControlLoop
EXIT
Promotions
Advertisement
ESLPricing
ESLLoca tion
500
502
516
518
Delete
Yes
New
Create
Update
504
506
508
510
512
514
520
522
524
526
528
530

Figure6


ConsumerLogonto ESLShopping Tool
SelectMenu Item
Menu-ProgramControlLoop
608
602
606
604
InventoryMgmt.
ConsumerPro file
EXIT
MealPlanning
ShoppingList
Delete
Yes
New
Create
Update